

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph on page 1, line 16 as follows:

FIG. 39 is a block diagram showing an exemplary configuration of the conventional wireless LAN system. The wireless LAN system has two communication areas A and B, an SW 70, electric cables 80a to 80e, access points (hereinafter referred to as APs) 90a to 90e, and terminals A and B. Also, the wireless LAN system is connected to via the SW 70 to an external network (not shown).

Please amend the title on page 4, line 6 as follows:

DISCLOSURE SUMMARY OF THE INVENTION

Please amend the paragraph on page 44, line 12 as follows:

The wireless communication system of Embodiment 1 has areas C and D (in the claims, the areas C and D are each referred to as a wireless communication area, and collectively referred to as a local area), and comprises a main station 10, sub-stations 20a and 20b, optical fiber transmission paths 50a and 50b, a network switch (abbreviated as SW in FIG. 1) 70, access points (abbreviated as AP in FIG. 1) 91a to 90e, 91e and terminals C and D. Note that the terminals C and D are representative terminals which are present in the respective areas. Therefore, a number of terminals are present in the actual areas C and D in addition to the terminals C and D.

Please amend the paragraph on page 44, line 23 to page 45, line 16 as follows:

The area C is an area in which the sub-station 20a provides services, and more specifically, an area within a reach of a signal transmitted from the sub-station [[a]] 20a. The area D is an area in which the sub-station 20b provides services, and more specifically, an area within a reach of a signal transmitted from the sub-station 20b. The SW 70 manages a network structure of a wireless LAN, and switches an Ethernet(R) signal which is input from an external network to the wireless communication system, to each of the APs 91a to 91e. The APs 91a to 91e convert an Ethernet(R) signal which is input from the SW 70, to a wireless LAN signal in the

form of an electrical signal, which is in turn output to the main station 10. The APs 91a to 91e also convert a wireless LAN signal in the form of an electrical signal which is output from the main station 10, to an Ethernet(R) signal, which is in turn output to the SW 70. The APs 91a to 91e ~~has~~ have substantially the same structure as that of APs for use in general wireless LAN. The APs 91a to 91e are different from general wireless LAN APs in that a wireless LAN signal is output onto an electric cable in the form of an electrical signal instead of a radio wave.

Please amend the paragraph on page 54, line 24 to page 55 line 17 as follows:

Note that, in order to enable the user to easily change a frequency used in each AP 91, the transmitted signal combining section 101 detects which port receives what signal. When the frequency has been changed, the transmitted signal combining section 101 informs the received signal processing section 111 of the change. In response to this, the received signal processing section 111 changes the ports to which it outputs signals. For example, when a frequency used by an AP 91 connecting to a first port for an input signal and a first port for an output signal has been changed, the transmitted signal combining section 101 detects the change and informs the received signal processing section 111 of the change. The received signal processing section 111 outputs a signal having a desired frequency, among the signals from the main station optical signal receiving section 112, to the first port for an output signal. Therefore, the AP can perform normal communication even when the frequency used is changed. Needless to say, when a frequency has been changed as described above, the user may manually change manually settings of the received signal processing section 111.

Please amend the paragraph on page 70, line 14 as follows:

The signal transmission/reception separating section 204 outputs a signal from the wireless signal transmitting section 202 to the signal transmitting/receiving antenna section 205, and outputs a signal from the signal transmitting/receiving antenna section 205 to the wireless signal receiving section 212. Here, the signal transmission/reception separating section 204 ~~ideally performs~~ performs the above-described operation. In fact, however, not only the signal from the wireless signal transmitting section 202 is transmitted via the signal

transmission/reception separating section 204 to the signal transmitting/receiving antenna section 205, but also a portion of the signal leaks into the wireless signal receiving section 212 (occurrence of crosstalk).

Please amend the paragraph on page 83, line 13 as follows:

As described above, when an instruction from the main station 10 is present, only the sub-station 20 that receives the instruction transmits a supervision signal. Therefore, in the main station 10, supervision signals from a plurality of the sub-stations 20 do not temporally overlap or interfere with one otheranother. Therefore, it is advantageous that parallel processing is not required in the main station 10.

Please amend the paragraph on page 94, line 7 as follows:

The transmitted/received signal processing section 1250 of FIG. 14(c) comprises a coupler group 1251, a switch group 1252, and a coupler group 1253. The coupler group 1251 is composed of a plurality of couplers, and splits signals input from the APs 91 into the number of the sub-stations 20. Note that four sub-stationsub-stations 20 are present in FIG. 14(c). Therefore, for example, a coupler connected to the AP 91a splits a signal into two, and then the two split signals are each split into two signals. As a result, the signal input from the AP 91a is split into four. Note that signals input from the other APs 91 are similarly split.

Please amend the paragraph on page 157, line 17 as follows:

Note that, here, an a download system from the main station 10 to the sub-station 20 has been described, however, an upload system for IF signal optical transmission can be achieved using a configuration similar to that described above.